

New Patent Claim 1

1. X-ray anode for microfocus sources in which the anode material is located on a diamond window, characterized in that the thickness of the diamond window is in the range of 300 μm to 2000 μm .

This is followed by the currently valid patent claims 2 through 16.

New Patent Claims

1. X-ray anode, characterized in that the anode material is located on a diamond window, characterized in that the thickness of the diamond window is in the range of 300 μm to 700 μm or in the range of 700 μm to 2000 μm .
2. X-ray anode according to claim 1, characterized in that it is a polychrystalline diamond window.
3. X-ray anode according to claim 1, characterized in that the diamond window is a monocrystal.
4. X-ray anode according to at least one of claims 1 through 3, characterized in that the anode material is a metal, an alloy or several layers of metal.
5. X-ray anode according to at least one of claims 1 through 4, characterized in that the anode material thickness is between 1 μm and 25 μm .
6. X-ray anode according to claim 5, characterized in that the anode material thickness is between 3 μm and 12 μm .
7. X-ray anode according to claim 6, characterized in that the anode material thickness is 6 μm .
8. X-ray anode according to at least one of claims 1 through 7, characterized in that the anode material completely covers the window.
9. X-ray anode according to at least one of claims 1 through 8, characterized in that the anode material partially covers the window.
10. X-ray anode according to at least one of claims 1 through 9, characterized in that an intermediate layer is provided between the x-ray anode and the diamond window.
11. X-ray anode according to at least one of claims 1 through 10, characterized in that the intermediate layer is an adhesion-promoting layer.
12. X-ray anode according to at least one of claims 1 through 11, characterized in that the intermediate layer is a radiation filter.
13. X-ray anode according to at least one of claims 1 through 12, characterized in that a temperature sensor is provided.

as a temperature sensor.

15. Use of an x-ray anode according to at least one of claims 1 through 14 for x-ray microscopes.
16. Use of an x-ray anode according to at least one of claims 1 through 14 for x-ray units.

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